NC/QC/YPD/SIP-01/2017-18/SH-DM1 Date: 20-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.10**	90-100
19.0	**85.45**	71-95
13.20	**74.60**	56-80
4.75	**46.85**	38-54
2.36	**33.00**	28-42
0.300	**18.15**	7-21
0.075	**7.20**	2-8

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/YPD/SIP-01/2017-18/SH-DBM2 Date: 21-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.45**	90-100
19.0	**85.10**	71-95
13.20	**72.60**	56-80
4.75	**46.15**	38-54
2.36	**38.60**	28-42
0.300	**19.00**	7-21
0.075	**6.30**	2-8

*As Furnished by Client.
The Results relate only to the items tested.

K...R
KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-01/2017-18/SH-DM3 Date: 23-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.25**	90-100
19.0	**83.00**	71-95
13.20	**77.45**	56-80
4.75	**45.10**	38-54
2.36	**38.60**	28-42
0.300	**18.35**	7-21
0.075	**6.80**	2-8

*As Furnished by Client.

The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-01/2017-18/SH-DBM4 Date: 24-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.50**	90-100
19.0	**85.25**	71-95
13.20	**74.00**	56-80
4.75	**46.30**	38-54
2.36	**35.10**	28-42
0.300	**17.45**	7-21
0.075	**7.15**	2-8

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-01/2017-18/SH-CA3 **Date: 23-04-2018**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**23.12 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**25.45%**	Not more than 35.0 %
3.	Water absorption, %	**0.35%**	Not more than 2.0 %
4.	Specific gravity	**2.55**	-------
5.	Soundness	**6.12 %**	Max. 12 % in Sodium Sulphate

*As furnished by Client.
The results relate only to the samples tested.

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

Newzen Consultants Bangalore

NC/QC/YPD/SIP-01/2017-18/SH-BC1 Date: 24-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.25**	90-100
9.5	**85.10**	70-88
4.75	**68.30**	53-71
2.36	**54.00**	42-58
1.18	**42.60**	34-48
0.600	**34.75**	26-38
0.300	**21.05**	18-28
0.150	**18.10**	12-20
0.075	**8.05**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-01/2017-18/SH-BC2 Date: 25-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41%**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.20**	90-100
9.5	**83.00**	70-88
4.75	**65.10**	53-71
2.36	**52.30**	42-58
1.18	**43.60**	34-48
0.600	**35.45**	26-38
0.300	**24.00**	18-28
0.150	**18.30**	12-20
0.075	**7.10**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231,

NC/QC/YPD/SIP-01/2017-18/SH-BC3 Date: 26-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.10**	90-100
9.5	**85.25**	70-88
4.75	**67.45**	53-71
2.36	**54.15**	42-58
1.18	**42.00**	34-48
0.600	**35.40**	26-38
0.300	**26.80**	18-28
0.150	**18.65**	12-20
0.075	**8.75**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)
For Newzen Consultants Bangalore
Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080-23240187 EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-01/2017-18/SH-BC4 Date: 27-04-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to Main roads and drains at Shivanahalli.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**85.10**	70-88
4.75	**65.30**	53-71
2.36	**54.00**	42-58
1.18	**43.80**	34-48
0.600	**35.15**	26-38
0.300	**26.50**	18-28
0.150	**18.75**	12-20
0.075	**8.05**	4-10

*As Furnished by Client.
The Results relate only to the items tested.

KIRAN. R
M.E, (Civil-Engg)

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com